

FIGURE 12A

GCTGGTACGCCCTGCAGGTACCGGTCCGGAATTCCCGGGTCGACCCCACGCGTCCGCCACGCG	-138
TCCGGGGAGCGCAGTTAGAGCCGATCTCCCGCCCCGAGGTTGCTCCTCTCCGAGGTCTC	-76
CCGGGGCCCAAGTTCTCCGGCCCCGAGGTCTCCGGCCCCGAGGTCTCCGGCCCCGAGGT	-14
CTCCGGCCCGACC	-1
ATG CGG CTG GGC AGT CCT GGA CTG CTC TTC CTG CTC TTC AGC AGC	45
M R L G S P <u>G</u> L L F L L F S S	
5 10 15	
CTT CGA GCT GAT ACT CAG GAG AAG GAA GTC AGA GCG ATG GTA GGC	90
<u>L</u> R A *D *T *Q *E K *E V R A *M V G	
20 25 30	
AGC GAC GTG GAG CTC AGC TGC GCT TGC CCT GAA GGA AGC CGT TTT	135
S D V E L S C A C P E G S R F	
35 40 45	
GAT TTA AAT GAT GTT TAC GTA TAT TGG CAA ACC AGT GAG TCG AAA	180
D L N D V Y V Y W Q T S E S K	
50 55 60	
ACC GTG GTG ACC TAC CAC ATC CCA CAG AAC AGC TCC TTG GAA AAC	225
T V V T Y H I P Q N S S L E N	
65 70 75	
GTG GAC AGC CGC TAC CGG AAC CGA GCC CTG ATG TCA CCG GCC GGC	270
V D S R Y R N R A L M S P A G	
80 85 90	
ATG CTG CGG GGC GAC TTC TCC CTG CGC TTG TTC AAC GTC ACC CCC	315
M L R G D F S L R L F N V T P	
95 100 105	
CAG GAC GAG CAG AAG TTT CAC TGC CTG GTG TTG AGC CAA TCC CTG	360
Q D E Q K F H C L V L S Q S L	
110 115 120	
GGA TTC CAG GAG GTT TTG AGC GTT GAG GTT ACA CTG CAT GTG GCA	405
G F Q E V L S V E V T L H V A	
125 130 135	
GCA AAC TTC AGC GTG CCC GTC GTC AGC GCC CCC CAC AGC CCC TCC	450
A N F S V P V V S A P H S P S	
140 145 150	
CAG GAT GAG CTC ACC TTC ACG TGT ACA TCC ATA AAC GGC TAC CCC	495
Q D E L T F T C T S I N G Y P	
155 160 165	
AGG CCC AAC GTG TAC TGG ATC AAT AAG ACG GAC AAC AGC CTG CTG	540
R P N V Y W I N K T D N S L L	
170 175 180	
GAC CAG GCT CTG CAG AAT GAC ACC GTC TTC TTG AAC ATG CGG GGC	585
D Q A L Q N D T V F L N M R G	
185 190 195	
TTG TAT GAC GTG GTC AGC GTG CTG AGG ATC GCA CGG ACC CCC AGC	630
L Y D V V S V L R I A R T P S	
200 205 210	
GTG AAC ATT GGC TGC TGC ATA GAG AAC GTG CTT CTG CAG CAG AAC	675
V N I G C C I E N V L L Q Q N	
215 220 225	

FIGURE 12A Continued

CTG ACT GTC GGC AGC CAG ACA GGA AAT GAC ATC GGA GAG AGA GAC	720
L T V G S Q T G N D I G E R D	
230 235 240	
AAG ATC ACA GAG AAT CCA GTC AGT ACC GGC GAG AAA AAC GCG GCC	765
K I T E N P V S T G E K N A A	
245 250 255	
ACG TGG AGC ATC CTG GCT GTC CTG TGC CTG CTT GTG GTC GTG GCG	810
T W S I L A V L C L L V V V A	
260 265 270	
GTG GCC ATA GGC TGG GTG TGC AGG GAC CGA TGC CTC CAA CAC AGC	855
V A I G W V C R D R C L Q H S	
275 280 285	
TAT GCA GGT GCC TGG GCT GTG AGT CCG GAG ACA GAG CTC ACT GGC	900
Y A G A W A V S P E T E L T G	
300	
CAC GTT TGA	909
H V STOP	
302	
CCGGAGCTACCGCCCAGAGCGTGGACAGGGCTTCCGTGAGACGCCACCGTGAGAGGCCAGG	971
TGGCAGCTTGAGCATGGACTCCCAGACTGCAGGGAGCACTTGGGCAGCCCCAGAAGGAC	1033
CACTGCTGGATCCCAGGGAGAACCTGCTGGCGTTGGCTGTGATCCTGGAATGAGGCCCTTC	1095

FIGURE 13A

AACAATTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCTCTAACAGA CTCACTATAGGGAAAGCTGGTACGCCTGCAGGTACCGGTCCGGAATTCCCGGGTC GACCCACGCGTCCGTGAACACTGAACGCGAGGACTGTTAACTGTTCTGGCAAAC	-111 -56 -1
ATG AAG TCA GGC CTC TGG TAT TTC TTT CTC TTC TGC TTG CGC ATT M K S G L W Y F F L F C L R I 5 10 15	45
AAA GTT TTA ACA GGA GAA ATC AAT GGT TCT GCC AAT TAT GAG ATG K V L T *G *E I N G S A N Y E M 20 25 30	90
TTT ATA TTT CAC AAC GGA GGT GTA CAA ATT TTA TGC AAA TAT CCT F I F H N G G V Q I L C K Y P 35 40 45	135
GAC ATT GTC CAG CAA TTT AAA ATG CAG TTG CTG AAA GGG GGG CAA D I V Q F K M Q L L K G G G Q 50 55 60	180
ATA CTC TGC GAT CTC ACT AAG ACA AAA GGA AGT GGA AAC ACA GTG I L C D L T K T K G S G N T V 65 70 75	225
TCC ATT AAG AGT CTG AAA TTC TGC CAT TCT CAG TTA TCC AAC AAC S I K S L K F C H S Q L S N N 80 85 90	270
AGT GTC TCT TTT CTA TAC AAC TTG GAC CAT TCT CAT GCC AAC S V S F F L Y N L D H S H A N 95 100 105	315
TAT TAC TTC TGC AAC CTA TCA ATT TTT GAT CCT CCT CCT TTT AAA Y Y F C N L S I F D P P P F K 110 115 120	360
GTA ACT CTT ACA GGA GGA TAT TTG CAT ATT TAT GAA TCA CAA CTT V T L T G G Y L H I Y E S Q L 125 130 135	405
TGT TGC CAG CTG AAG TTC TGG TTA CCC ATA GGA TGT GCA GCC TTT C C Q L K F W L P I G C A A F 140 145 150	450
GTT GTA GTC TGC ATT TTG GGA TGC ATA CTT ATT TGT TGG CTT ACA V V V C I L G C I L I C W L T 155 160 165	495
AAA AAG AAG TAT TCA TCC AGT GTG CAC GAC CCT AAC GGT GAA TAC K K K Y S S S V H D P N G E Y 170 175 180	540
ATG TTC ATG AGA GCA GTG AAC ACA GCC AAA AAA TCT AGA CTC ACA M F M R A V N T A K K S R L T 185 190 195	585
GAT GTG ACC CTA TAA D V T L STOP 199	600
TATGGAACTCTGGCACCCAGGCATGAAGCACGTTGGCCAGTTTCCTCAACTTGA AGTGCAAGATTCTCTTATTCCGGGACCACGGAGAGTCTGACTTAACATACAC	655 710

FIGURE 13A Continued

TCTTCTGCTGGTGTGTTCAATCTGGAAGAACATGACTGTATCAGTCATGGGA	765
TTTTAACAGACTGCCTGGTACTGCCGAGTCCTCTCAAAACAAACACCCTTGC	820
AACCAGCTTGGAGAAAGCCCAGCTCCTGTGCTCACTGGGAGTGGAAATCCCTG	875
TCTCCACATCTGCTCCTAGCAGTGCATCAGCCAGTAAAACAAACACATTACAAG	930
AAAAATGTTTAAAGATGCCAGGGGTACTGAATCTGCAAAGCAAATGAGCAGCCA	985
AGGACCAGCATCTGTCGCAATTCACTATCATACTACCTCTTCTGTAGGGA	1040
TGAGAATTCCCTTTAATCAGTCAGGGAGATGCTCAAAGCTGGAGCTATTTT	1095
ATTTCTGAGATGTTGATGTGAACCTGTACATTAGTACATACTCAGTACTCTCC	1150
AATTGCTGAACCCAGTTGACCATTACCAAGACTTACATGCTTCTGTGCC	1205